Actiontec™

11 Mbps

Wireless USB Adapter

User Manual

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Introduction 1

Thank you for purchasing the *Action*tec 11 Mbps Wireless USB Adapter. This Wireless USB Adapter features the latest wireless technology and will help you build the world of wireless networking. This easy-to-set-up, easy-to-use product is perfect for the mobile home or small office computer user. If you want to take your computing to the next level, the *Action*tec 11 Mbps Wireless USB Adapter is one of the keys to your success..

Package Contents

- *Action*tec 11 Mbps Wireless USB Adapter
- USB cable
- Installation CD (includes user manual)
- Quick start guide
- Warranty and registration card

Minimum System Requirements

- Computer with CD-ROM drive, USB connection, and at least 500 Kbytes of free disk space
- Microsoft Windows 98, 98 Second Edition (SE), Millennium Edition (Me), 2000, or XP
- TCP/IP network protocol installed on each computer

Safety Precaution

Use only the accessories and connection cables that came in the Wireless USB Adapter package. Failure to do so may cause the Wireless USB Adapter to malfunction. If any of the package contents are missing, or if any parts are damaged, contact your local dealer.

Technical Support

*Action*tec Electronics prides itself on making high-quality, durable, high-performance products. If you need assistance, the *Action*tec Technical Support Department is available to provide professional support.

_Action_tec Electronics, Inc.

760 N. Mary Avenue
Sunnyvale, CA 94085

Technical Support

Phone: 1-888-436-0657 (US)
or 0845 65 80411 (UK)
E-mail: techsupp@actiontec.com
Internet: www.actiontec.com/support

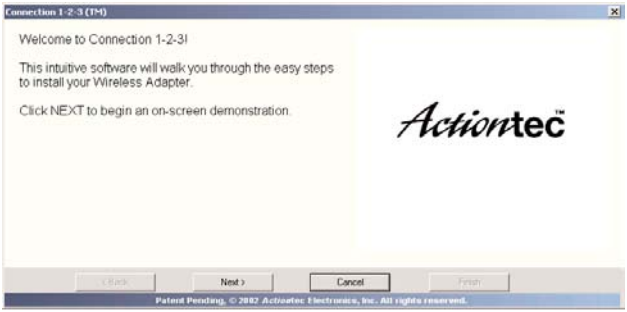
Setting Up the USB Adapter

2

The instructions that follow parallel the steps contained in the *Action*tec Installation Buddy™, which provides a visual guide to setting up the Wireless USB Adapter. We recommend the user run the Installation Buddy first, before attempting any other procedures.
To set up the Adapter, it must be connected to and configured with a computer, and then connected to a wireless network. To do this, use the following procedure.

Connecting the Adapter

1. Insert the *Action*tec Installation Buddy CD-ROM in the CD-ROM drive of the computer. The Installation Buddy will start automatically. Wait until the following window appears, read the onscreen instructions, then click **Next**.


Connection 1-2-3 (TM)
Welcome to Connection 1-2-3!
This intuitive software will walk you through the easy steps to install your Wireless Adapter.
Click NEXT to begin an on-screen demonstration.
Actiontec
< Back
Next >
Cancel
Finish
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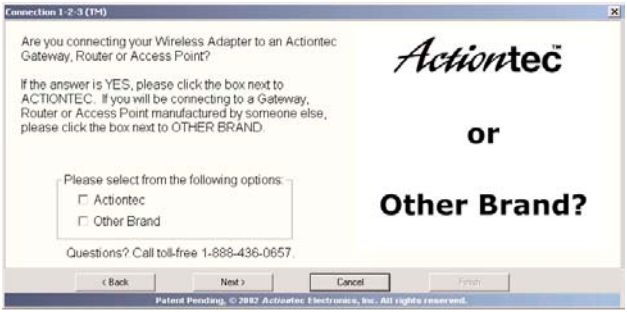
2. The next window appears. Select the kind of router, gateway, or access point the Adapter will connect to (**Actiontec** or **Other Brand**) by clicking in the proper check box, then click **Next**.


Connection 1-2-3 (TM)
Are you connecting your Wireless Adapter to an Actiontec Gateway, Router or Access Point?
If the answer is YES, please click the box next to ACTIONTEC. If you will be connecting to a Gateway, Router or Access Point manufactured by someone else, please click the box next to OTHER BRAND.
Please select from the following options:
Actiontec
Other Brand
Questions? Call toll-free 1-888-436-0657.
Actiontec
or
Other Brand?
< Back
Next >
Cancel
Finish
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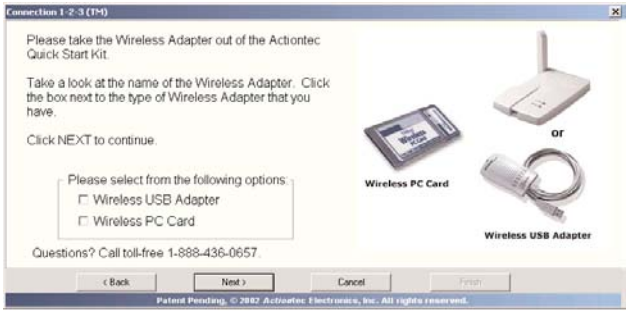
3. In the next window, click in the check box next to **Wireless USB Adapter** and click **Next**.


Connection 1-2-3 (TM)
Please take the Wireless Adapter out of the Actiontec Quick Start Kit.
Take a look at the name of the Wireless Adapter. Click the box next to the type of Wireless Adapter that you have.
Click NEXT to continue.
Please select from the following options:
Wireless USB Adapter
Wireless PC Card
Questions? Call toll-free 1-888-436-0657.
Wireless PC Card
or
Wireless USB Adapter
< Back
Next >
Cancel
Finish
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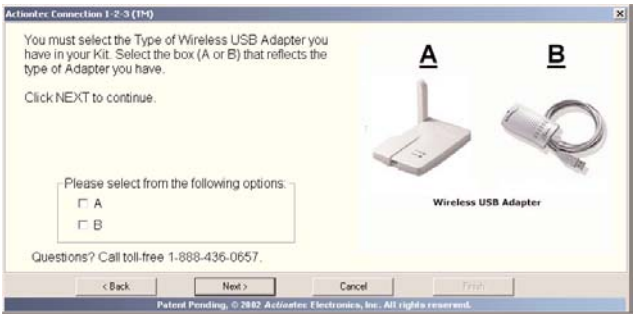
4. The next window appears. Select the type of Adapter used (**A** or **B**) by clicking on the check box that corresponds to the Adapter type, then click **Next**.


Actiontec Connection 1-2-3 (TM)
You must select the Type of Wireless USB Adapter you have in your Kit. Select the box (A or B) that reflects the type of Adapter you have.
Click NEXT to continue.
Please select from the following options:
A
B
Questions? Call toll-free 1-888-436-0657.
A
B
Wireless USB Adapter
< Back
Next >
Cancel
Finish
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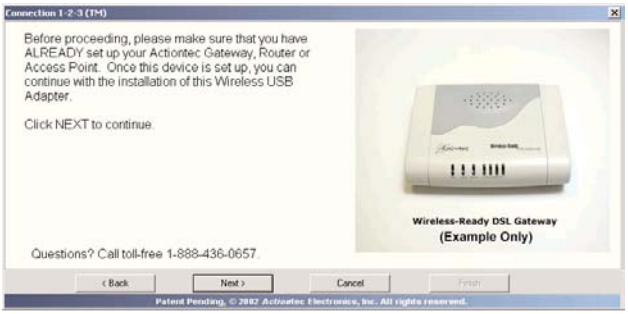
☞ ***Note***: The rest of this procedure is based on the "A" option chosen in the the window above. If the "B" option Adapter is being connected, the procedure is nearly identical; the only changes are in the pictures in the windows of the hardware used.

5. The next window appears. Read the onscreen instructions, then click **Next**.


Connection 1-2-3 (TM)
Before proceeding, please make sure that you have ALREADY set up your Actiontec Gateway, Router or Access Point. Once this device is set up, you can continue with the installation of this Wireless USB Adapter.
Click NEXT to continue.
Wireless-Ready DSL Gateway
(Example Only)
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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6. When the next window appears, read the information concerning the items needed to set up the Adapter, then click **Next**.

☞ ***Note***: If the "B" option was chosen in step 4, the picture in the window below will be different..

Connection 1-2-3 (TM)
For this installation, you will need the following items from your Wireless USB Adapter Kit:
Wireless USB Adapter
Special USB Cable
Start Here Guide
Connection 1-2-3 CD-ROM
Click NEXT to continue.
USB Cable
USB Adapter
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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7. If **Actiontec** was chosen in step 2, the following window appears. Read the instructions concerning the gateway, router, or access point, then click **Next**.

Connection 1-2-3 (TM)
Before you install the Actiontec Wireless USB Adapter, you must ensure that your Actiontec Wireless Gateway or Router's Wireless feature is active.
Step 1: If you have either a Wireless-Ready or Wireless Gateway or Router from Actiontec, check the Wireless link light located on the front of the Gateway or Router.
Click NEXT to continue.
Power
Internet
Wireless
LAN
USB
(Example Only)
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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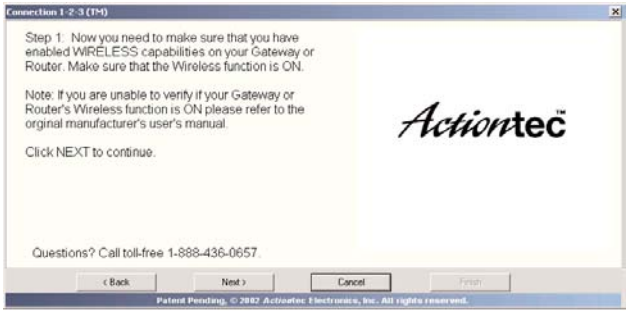
If **Other Brand** was chosen in step 2, the following window appears. Read the instructions concerning the gateway, router, or access point, then click **Next.**


Connection 1-2-3 (TM)
Step 1: Now you need to make sure that you have enabled WIRELESS capabilities on your Gateway or Router. Make sure that the Wireless function is ON.
Note: If you are unable to verify if your Gateway or Router's Wireless function is ON please refer to the orginal manufacturer's user's manual.
Click NEXT to continue.
Actiontec
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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8. When the next window appears, plug the rectangular end of the **USB Cable** into a **USB Port** on the front or back of the computer. Click **Next.**

☞ ***Note***: If the "B" option was chosen in step 4, the picture in the window below will be different.

Connection 1-2-3 (TM)
Step 2: Locate the USB port on your computer or laptop.
Step 3: Take the USB cable and insert the flat end of it into your computer or laptop's USB Port.
Click NEXT to continue.
Computer
USB Port
USB Cable
Computer
Your computer may look slightly different.
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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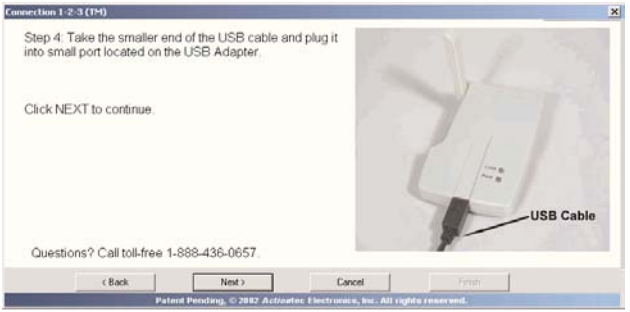
☞ ***Note***: A USB port is shaped like a thin rectangle about 1/4 inch by 1/2 inch, and may be vertically or horizontally oriented.

9. When the next window appears, connect the smaller end of the **USB Cable** in the **port** on the front of the Adapter, then click **Next**.

☞ ***Note***: If the "B" option was chosen in step 4, the picture in the window below will be different.


Connection 1-2-3 (TM)
Step 4: Take the smaller end of the USB cable and plug it into small port located on the USB Adapter.
Click NEXT to continue.
USB Cable
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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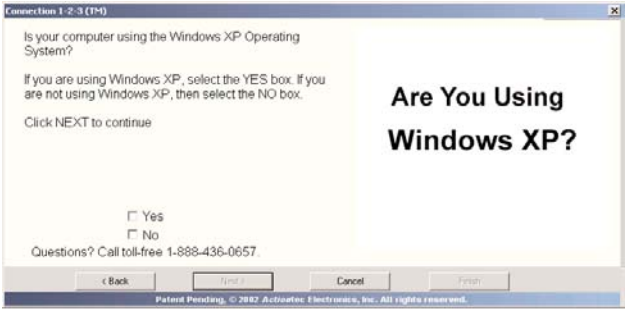
10. As shown in the next window, select whether Windows XP is used on the computer connected to the Adapter by clicking **Yes** or **No**. Then, click **Next**.


Connection 1-2-3 (TM)
Is your computer using the Windows XP Operating System?
If you are using Windows XP, select the YES box. If you are not using Windows XP, then select the NO box.
Click NEXT to continue
Are You Using Windows XP?
Yes
No
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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11. If **Yes** (Windows XP is running on the computer) was selected in step 10, the window below appears, instructing the user to click **Start**, **Settings**, and **Network Connections** from the desktop. Then, click **Next** in the Installation Buddy.

If **No** was selected in step 10, go to step 14.

Connection 1-2-3 (TM)
Now, you have to activate your Wireless Network Connection. To do this click START in the Desktop. From the menu that appears click SETTINGS. From the SETTINGS menu click NETWORK CONNECTIONS.
Click NEXT to continue.
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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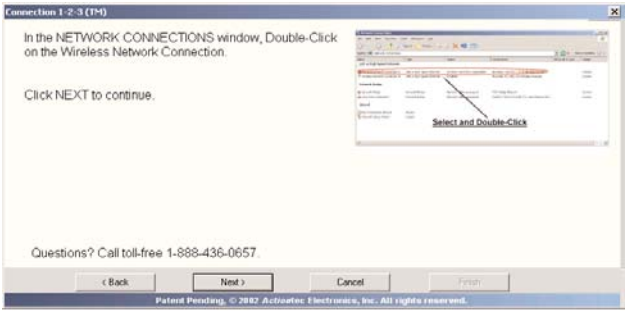
12. The next window appears, as well as the "Network Connections" window on the desktop. In the Network Connections window, double-click on the **Wireless Network Connection**, then click **Next** in the Installation Buddy.


Connection 1-2-3 (TM)
In the NETWORK CONNECTIONS window, Double-Click on the Wireless Network Connection.
Click NEXT to continue.
Select and Double-Click
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
Finish
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13. When the next window appears, follow the onscreen instructions. In the "Connect to Wireless Networks" window on the desktop, select the wireless network the Adapter will connect to, then click **Next** in the Installation Buddy.

Connection 1-2-3 (TM)
The following screen will appear on your computer. You must select the 'ACTIONTEC' network name that appears inside 'Available networks' table.
(Note: If you are NOT using an Actiontec Gateway/Router, you must select your Gateway/Router's network name that appears in the 'Available networks' table.)
Click Connect to establish your Wireless connection
Click NEXT to continue.
Select
Click
Questions? Call toll-free 1-888-436-0657.
< Back
Next >
Cancel
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14. The next window appears as the Installation Buddy connects the Adapter to the wireless network.

Connection 1-2-3 (TM)
Please standby while the Wireless Adapter searches for a Wireless signal from your Access Point, Gateway or Router.
Cancel
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13. When the Adapter has finished connecting, a "Congratulations" window appears. Click **Next** through the following windows, then click **Finish**.

Connection 1-2-3 (TM)
Congratulations!
You have successfully installed your Actiontec Wireless Adapter.
If you are interested in configuring your wireless network, please refer to the user's manual located on this Installation CD-ROM.
Click FINISH.
Actiontec
< Back
Next >
Cancel
Finish
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The Adapter is connected to and configured with a computer, and connected to a wireless network.

Using the Wireless LAN Monitor Utility

3

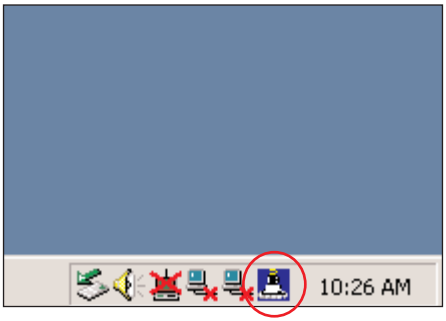
☞ ***Important***: This Utility is for Wireless USB Adapter "A" (see step 4 on page 4). If using Wireless USB Adapter "B," see page 21.

To monitor the wireless network to which the Wireless Adapter is connected, as well as check or adjust wireless network settings, use the Wireless LAN Monitor Utility. This utility offers the ability to check wireless network signal strength, connect to a wireless network using an encryption scheme, and many other options.

☞ ***Note***: The Utility is used only on computers running Windows 98, 98 SE, Me, or 2000. If the computer being used runs Windows XP, see "Windows XP" on page 20.

Opening the Monitor Utility Window

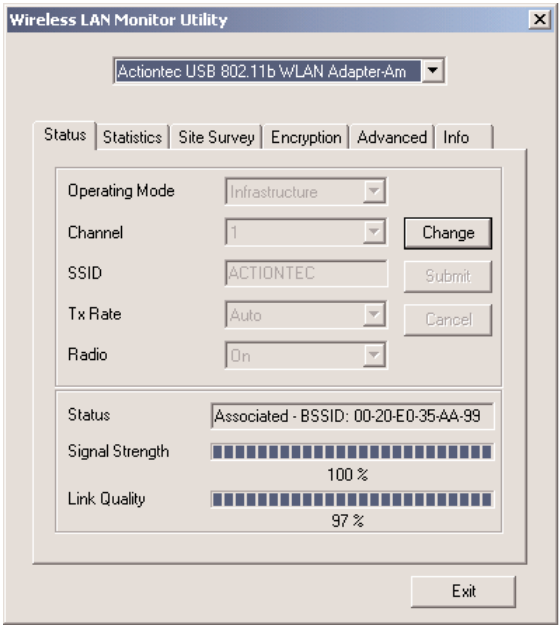
To open the Utility, go to the right-hand corner of the desktop. In the System Tray (where the clock is located), double-click on the Actiontec Wireless LAN Monitor Utility icon (shown in the red circle, below)



The Wireless LAN Monitor window appears on the desktop.

Using the Wireless LAN Monitor

After double-clicking on the Wireless LAN Monitor icon, the Wireless LAN Monitor appears.



There are six tabs at the top of the window: **Status**, **Statistics**, **Site Survey**, **Encryption**, **Advanced**, and **Info**. To select a particular tab, click on it. To close the Monitor window, click **Exit**.

Status

The Status tab (shown in the figure above) features a number of settings and statistics related to the wireless network connection. Some of the settings can be changed. To do this, click **Change**, which activates the configurable settings. After making changes, click **Submit** to save the changes, or **Cancel** to cancel the changes.

Operating Mode

The **Operating Mode** text box displays the type of network to which the Adapter is connected. There are two operating modes: **Infrastructure** and **Ad Hoc**.

Infrastructure - When **Infrastructure** is selected, the Adapter is connected to a router, gateway, or access point.

Ad Hoc - When **Ad Hoc** is selected, the Adapter is connected to another computer.

Channel

The **Channel** text box displays the channel in which the Adapter is currently operating. This setting cannot be changed from here.

SSID

The **SSID** text box displays the name of the wireless network to which the Adapter is currently connected. To change the network name, enter a new name in the text box.

TX Rate

The **TX Rate** text box sets the rate of packets being sent across the Adapter's wireless connection.Options include **5.5 Mbps**, 1**1 Mbps**, and **Auto**.

Radio

The **Radio** text box displays the state of the Adapter's wireless capability. Selecting **On**, turns the Adapter's wireless capability on; selecting **Off** turns the wireless capability off.

Status

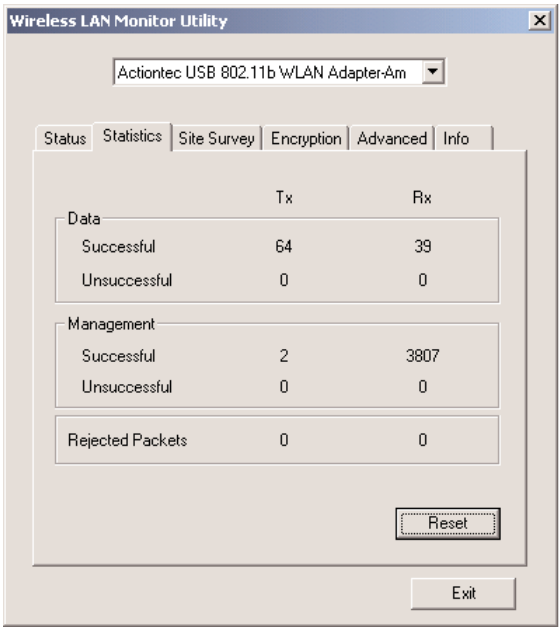
The **Status** text box contains the status of the Adapter's wireless connection, including whether the Adapter is associated with a wireless network and the MAC (Media Access Control) address of the connection's device (router, gateway, access point, or computer).

Signal Strength, Link Quality

Each bar graph displays the relative strength or quality of the wireless signal and link.

Statistics

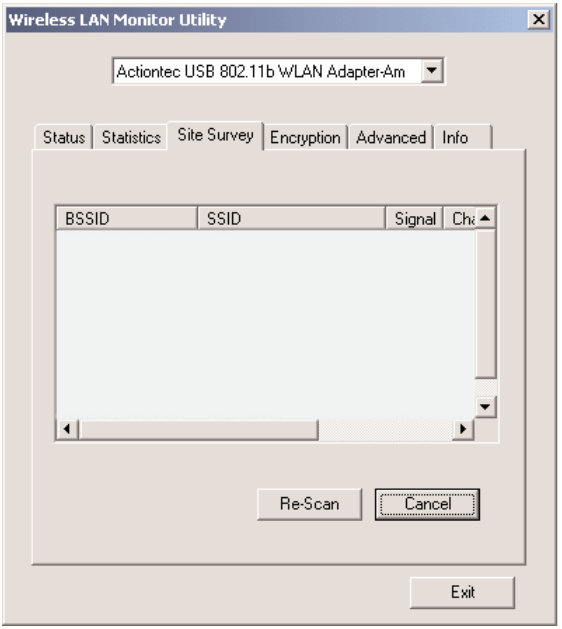
Clicking **Statistics** in the Wireless LAN Monitor window causes the "Statistics" tab to appear.



This tab contains various Tx (transmit cell) and Rx (ATM cell) statistics for the wireless connection. Clicking **Reset** sets all the statistics displayed back to zero, and starts the count again.

Site Survey

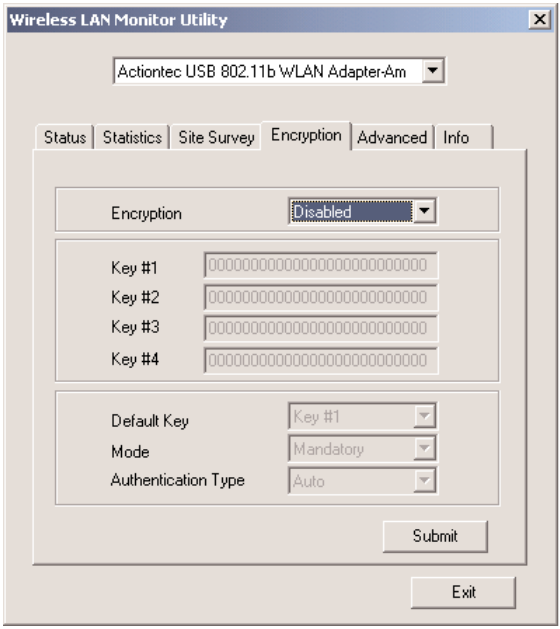
Clicking **Survey Site** in the Wireless LAN Monitor window causes the "Survey Site" tab to appear.



In the tab's text box, a list of all wireless networks the Adapter can detect appears, along with the particular network's BSSID (MAC address), SSID name, signal strength, channel, encryption state, and BSS (type of connection [Infrastructure or Ad Hoc]).
Clicking **Re-Scan** causes the Adapter to refresh its list of detected networks.

Encryption

Clicking **Encryption** in the Wireless LAN Monitor window causes the 'Encryption" tab to appear. If changing settings in this tab, make sure to click **Submit** after making all changes.



Encryption Types

Clicking the arrow next to the "Encryption" text box reveals a list box with three options: **Disabled**, **64 Bit**, and **128 Bit**.

Disabled - If joining a wireless network with no encryption, select this option.

64 Bit - If joining a wireless network with 64-bit encryption, select this option.

128 Bit - If joining a wireless network with 128-bit encryption, select this option.

Key #1 - Key #4

If joining a wireless network with 64-bit or 128-bit encryption, enter the encryption keys here. These keys must be identical to the wireless network's encryption keys to join the network.

Default Key

When **64 Bit** or **128 Bit** encryption is selected, the "Default Key" text box activates. Click the arrow next to the text box to reveal a list box with four options: **Key #1**, **Key #2**, **Key #3**, and **Key #4**. Some networks use a default key when using encryption (rather than using all the keys available) If connecting to a network using a default key, click on the default key number used by the network

Mode

When **64 Bit** or **128 Bit** encryption is selected, the "Mode" text box activates. Click the arrow next to the text box to reveal a list box with two options: **Mandatory** and **Optional**. Select the option by clicking on it.

Mandatory - When **Mandatory** is selected, all other computers trying to connect to the Adapter must use the same encryption scheme used on the wireless network to which the Adapter is currently connected.

Optional - When **Optional** is selected. other computers can connect to the Adapter without using the encryption scheme used on the wireless network to which the Adapter is currently connected.

Authentication Type

When **64 Bit** or **128 Bit** encryption is selected, the "Authentication Type" text box activates. Click the arrow next to the text box to reveal a list box with three options: **Open System**, **Shared Key**, and **Optional**. Select the option by clicking on it.

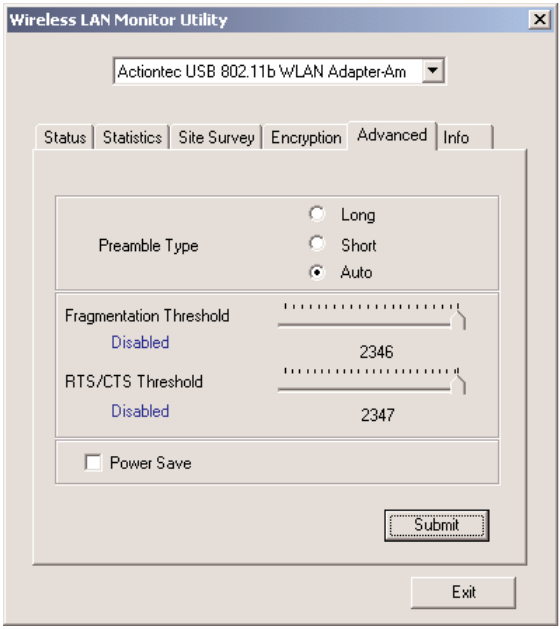
Open System - When **Open System** is selected, the Adapter and the wireless device to which it is connected send and accept randomly generated keys that last only a short time before new keys are generated and sent. This is the highest level of authentication.

Shared Key - When **Shared Key** is selected, the Adapter and wireless device to which it is connected send and accept a single key. This key is used indefinitely, and if an outside user discover the key, he can eavesdrop on the network traffic between the Adapter and wireless device.

Optional - When **Optional** is selected. other computers can connect to the Adapter without using any type of authentication.

Advanced

Clicking **Advanced** in the Wireless LAN Monitor window causes the "Advanced" tab to appear. The settings in this tab should be changed only if the user is very familiar with wireless networking concepts.



Preamble Type

A preamble is a signal which synchronizes transmissions between two or more systems. This setting should remain at **Auto**.

Fragmentation Threshold

Sets the amount of network resources used to recover packet errors. If high packet error rates exist, this setting can be decreased, but network performance may degrade.

RTS/CTS Threshold

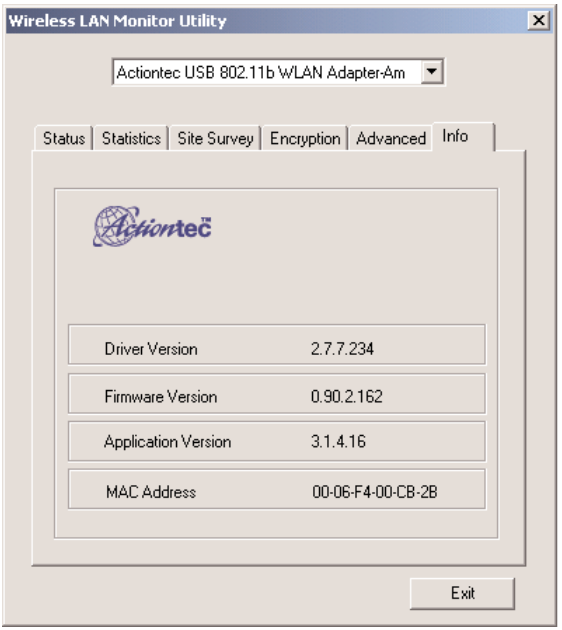
Sets the RTS/CTS (Request To Send/Clear To Send) threshold. If the connection drops from the network frequently and without apparent reason, set this threshold lower.

Power Save

Clicking in this check box enables **Power Save** mode. Activate Power Save when using the Adapter with a laptop running on battery power to minimize the Adapter's power load.

Info

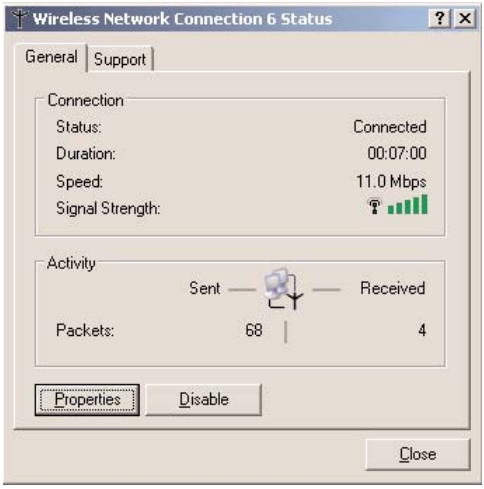
Clicking **Info** in the Wireless LAN Monitor window causes the "Info" tab to appear.

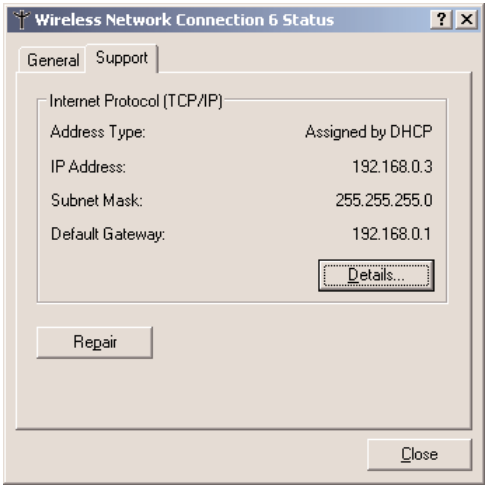


In this tab, the Adapter's Driver Version, Firmware Version, Application Version, and MAC Address are displayed.

Windows XP

When using the Adapter with a computer running Windows XP, the Wireless LAN Utility Monitor is not used. Instead, Windows XP handles the operation of the wireless network natively (that is, within the Windows XP operating system itself). Clicking the network icon in the System Tray generates the "Wireless Network Connection X Status" window (with "X" representing the number of the connection; if only one connection is available, no number will appear here).
Two tabs (**General** and **Support**) can be accessed from this window. See the documentation that came with Windows XP for more information about wireless networking.





Using the Wireless LAN Configuration Utility

4

☞ ***Important***: This Utility is for Wireless USB Adapter "B" (see step 4 on page 4). If using Wireless USB Adapter "A," see page 11.

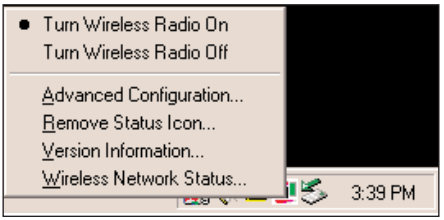
To monitor the wireless network to which the Wireless Adapter is connected, as well as check or adjust wireless network settings, use the Wireless LAN Configuration Utility. This Utility offers the ability to check wireless network signal strength, connect to a wireless network using an encryption scheme, and many other options.

☞ ***Note***: The Utility is used only on computers running Windows 98, 98 SE, Me, or 2000. If the computer being used runs Windows XP, see "Windows XP" on page 28.

Opening the Configuration Utility Window

To open the Utility, go to the right-hand corner of the desktop. In the System Tray (where the clock is located), right-click on the Actiontec Wireless LAN icon (shown in the red circle, below)

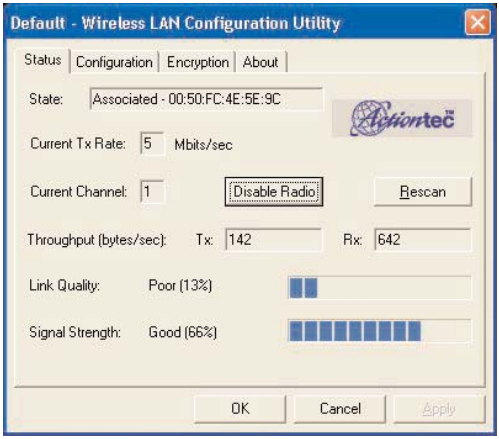
A menu appears, as shown below.



There should be a black dot next to "Turn Wireless Radio On." If not, click on the text to activate the wireless radio. Then, select **Advanced Configuration**.

Using the Wireless LAN Configuration Utility

After clicking on Advanced Configuration, the Wireless LAN Configuration Utility appears.



There are four tabs at the top of the window: **Status**, **Configuration**, **Encryption**, and **About**. To select a particular tab, click on it. To close the Utility window, click the "x" in the upper right corner of the window .

Status

The Status tab (shown in the figure above) features a number of settings and statistics related to the wireless connection. Some of the settings can be changed. To do this, make changes to the configurable settings, then click **OK** to save the changes, or **Cancel** to cancel the changes.

State

The **State** text box contains the status of the Adapter's wireless connection, including whether the Adapter is associated with a wireless network and the MAC (Media Access Control) address of the connection's device (router, gateway, access point, or computer).

Current TX Rate

The **Current TX Rate** text box sets the rate of packets being sent across the Adapter's wireless connection.Options include **5.5 Mbps**, 11 **Mbps**, and **Auto**.

Current Channel

The **Current Channel** text box displays the channel in which the Adapter is currently operating.

Throughput (bytes/sec)

The **TX** and **RX** text boxes display the transmit cell and ATM cell throughput rates.

Disable/Enable Radio

The **Disable/Enable Radio** button controls the state of the Adapter's wireless capability. Clicking this button causes the wireless radio to turn on and off.

Signal Strength, Link Quality

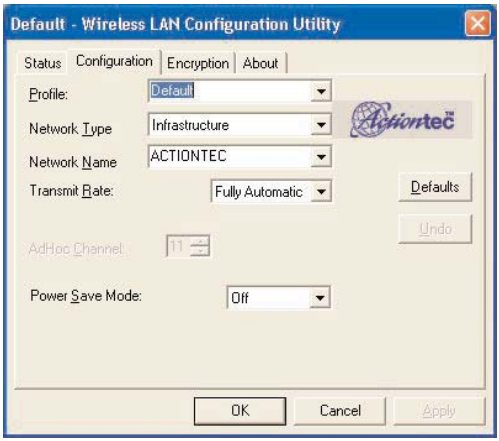
Each bar graph displays the relative strength or quality of the wireless signal and link.

Rescan

Clicking this button resets all of the Status tab's statistics (Throughput, Link Quality, Signal Strength).

Configuration

The Configuration tab features a number of settings related to the network connection. To change any of the settings, click **OK**, after making changes. Click **Defaults** to reset all settings to default, **Undo** to reset the changes to what they were when the Utility was opened, **Apply** to apply the changes made, or **Cancel** to cancel any changes.



Profile

The **Profile** text box displays the name of the current group of network settings. If the settings were changed, they can be saved under a Profile name. A list of available profiles appears by clicking on the arrow button on the right side of the Profile text box.

Network Type

The **Network** text box displays the the type of network to which the Adapter is connected (**Ad Hoc** or **Infrastructure**).

Network Name

The **Network Name** text box displays the name of the wireless network to which the Adapter is currently connected. To change the network name, enter a new name in the text box.

Transmit Rate

The **Transmit Rate** text box sets the rate of packets being sent across the Adapter's wireless connection.Options include **5.5 Mbps**, 11 **Mbps**, and **Fully Automatic**.

Ad Hoc Channel

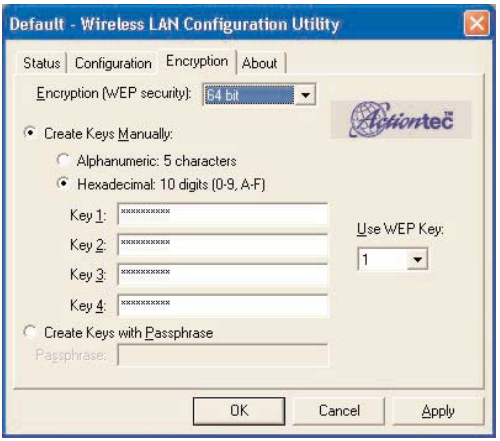
The **Ad Hoc Channel** text box displays the channel number of the Ad Hoc network. Clicking the up and down arrows next to the text box causes the channel number to increase or decrease. This text box is active only if connected to an Ad Hoc wireless network

Power Save

Clicking in this check box enables **Power Save** mode. Activate Power Save when using the Adapter with a laptop running on battery power to minimize the Adapter's power load.

Encryption

Clicking **Encryption** in the Wireless LAN Configuration Utility window causes the 'Encryption" tab to appear. If changing settings in this tab, make sure to click **OK** after making all changes.



The Encryption tab displays the Adapter's encryption options. After making changes here, click **OK.**, **Apply** to apply the changes made, or **Cancel** to cancel any changes.

Encryption (WEP security)

Clicking the arrow next to the "Encryption" text box reveals a list box with three options: **Disabled**, **64 Bit**, and **128 Bit**.

Disabled - If joining a wireless network with no encryption, select this option.

64 Bit - If joining a wireless network with 64-bit encryption, select this option.

128 Bit - If joining a wireless network with 128-bit encryption, select this option.

Create Keys Manually

If this radio button is activated, the user enters the WEP keys manually, selecting either **Alphanumeric: 5 characters** or **Hexadecimal: 10 digits** (**0-9, A-F**), depending on what kind of WEP the wireless network being joined is using.

Key #1 - Key #4

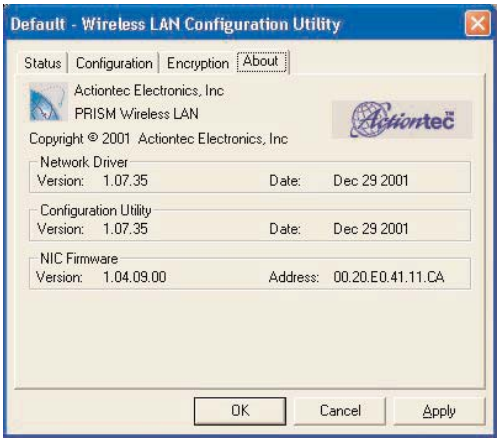
If joining a wireless network with 64-bit or 128-bit encryption, enter the encryption keys here. These keys must be identical to the wireless network's encryption keys to join the network.

Create Keys with Passphrase

Activating this radio button allows the user to create WEP keys based on the passphrase entered. Once a passphrase is entered in the "Passphrase" text box, keys will be created and displayed in the "Key 1" through "Key 4" text boxes.

About

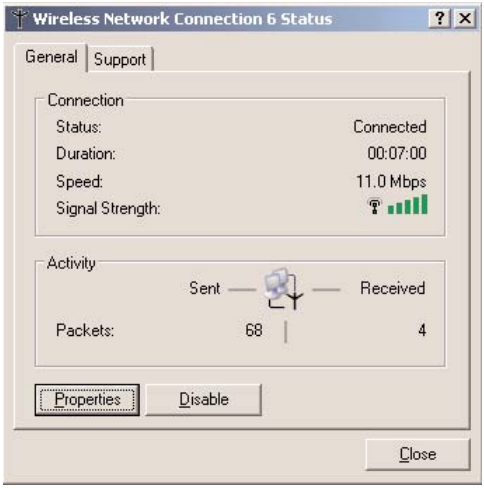
Clicking **About** in the Wireless LAN Configuration Utility window causes the "Link" tab to appear.

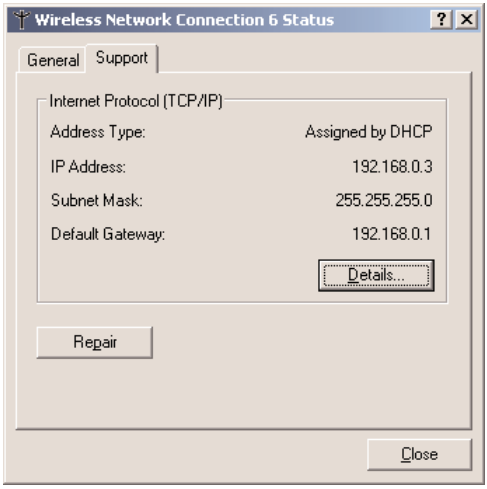


In this tab, the Adapter's Network Driver Version, Configuration Utility Version, NIC Firmware Version, and MAC Address are displayed.

Windows XP

When using the Adapter with a computer running Windows XP, the Wireless LAN Utility Monitor is not used. Instead, Windows XP handles the operation of the wireless network natively (that is, within the Windows XP operating system itself). Clicking the network icon in the System Tray generates the "Wireless Network Connection X Status" window (with "X" representing the number of the connection; if only one connection is available, no number will appear here).
Two tabs (**General** and **Support**) can be accessed from this window. See the documentation that came with Windows XP for more information about wireless networking.





Reference

A

This appendix contains information about various topics, including accessing information about your Windows computer.

Locating Computer Information

The following procedure is valid for Windows 98, 98 SE, Me, NT 4.0, 2000 and XP.

1. From the desktop, right-click on **My Computer**.
2. Select **Properties** from the menu that appears.
3. When the "System Properties" window appears, select **General**. The version of the operating system, processor type, and amount of RAM installed in the computer are listed here.
4. Close the System Properties window.
5. From the desktop, double-click on **My Computer**.
6. Right-click the icon representing your hard disk (Local Disk [C:], for example). Some computers have multiple hard disks.
7. From the menu that appears, select **Properties**.
8. When the window appears, select **General**.
9. The free space value is the available space on the hard disk.
10. Close all windows.

Locating Windows Operating System Files

If the operating system files reside on the hard drive of the computer, follow the instructions below to locate them. If the files are not on the hard drive, they must be loaded from the installation disks.

Windows 98, 98 SE

1. From the desktop, click **Start**.
2. When the menu appears, select **Find,** then **Files or Folders**.
3. When the "Find: All Files" window appears, select **Name & Location**.
4. In the "Named" text box, enter:
   `*.cab`
5. Click the **down arrow** next to the "Look In" text box and select **My Computer** from the list that appears.
6. Click **Find Now**.
7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \SYSTEM.
8. The Windows operating system files are located in this directory. Write down the directory path for future reference.
9. Close the Find: All Files window.

Windows Me, 2000

1. From the desktop, click **Start**.
2. Select **Search**, then **For Files and Folders**.

3a. ***Windows Me***: The "Search Results" window appears. In the "Search for files or folders named" text box, enter:
`*.cab`

3b. ***Windows 2000***: The "Search Results" window appears. In the "Search for files or folders named" text box, enter:
`i386`

4. Click the **down arrow** next to the "Look in" text box and select **My Computer** from the list that appears.

5. Click **Search Now**.

6a. ***Windows Me***: When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \OPTIONS\INSTALL.

6b. ***Windows 2000***: When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINNT \Driver Cache.

7. The Windows operating system files are located in this directory. Write down the directory path for future reference.

8. Close the Search Results window.

Windows NT 4.0

1. From the desktop, click **Start**.

2. When the menu appears, select **Find,** then **Files or Folders**.

3. When the "Find: All Files" window appears, select **Name & Location**.

4. In the "Named" text box, enter:

```
i386
```

5. Click the **down arrow** next to the "Look In" text box and select **My Computer** from the list that appears.

6. Click **Find Now**.

7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\.

8. The Windows operating system files are located in this directory. Write down the directory path (followed by "i386") for future reference.

9. Close the Find: All Files window.

Windows XP

1. From the desktop, click **Start**.
2. Select **Search**, then **For Files and Folders**.
3. The "Search Results" window appears. In the panel at left titled "What do you want to search for?", click **All files and folders**.
4. Another panel, titled "Search by any or all of the criteria below" appears. In the "Look in" text box, click the **down arrow** and select **My Computer** from the menu that appears.
5. In the "All or part of the file name" text box, enter:
   i386
6. Click **Search**.
7. When the search is complete, note the directory path that appears most often in the "In Folder" column. For example: C:\WINDOWS \Driver Cache\.
8. The Windows operating system files are located in this directory. Write down the directory path (followed by "\i386") for future reference.
9. Close the Search Results window.

Specifications

B

General

Model Number

Gxxxxxxx-00 (*Action*tec Wireless USB Adapter)

Standards

IEEE 802.11b (Wireless)

Certification

FCC, CE

Frequency Band

2.4000 GHz ~ 2.4835 GHz

Interface

MiniUSB/USB v1.1

Data Rate

Up to 11Mbps

Data Encryption

64 bit/128 bit WEP

Cabling

USB cable (length - 1M [3.3ft])

Dimensions

95mm x 65mm x 13mm (

Wireless Operating Range

Indoors

40~100M (145~330 ft.)

Outdoors

100~300M (330~1000 ft.)

Environmental

Power Input

USB power only

Operating Temperature

0°C to 55°C (32°F to 131°F)

Storage Temperature

-20°C to 70°C (-4°F to 158°F)

Operating Humidity

0% to 70%, non-condensing

Storage Humidity

0% to 95%, non-condensing

Glossary

C

Access Point

A device that allows wireless clients to connect to one another. An access point can also act as a bridge between wireless clients and a "wired" network, such as an Ethernet network. Wireless clients can be moved anywhere within the coverage area of the access point and remain connected to the network. If connected to an Ethernet network, the access point monitors Ethernet traffic and forwards appropriate Ethernet messages to the wireless network, while also monitoring wireless traffic and forwarding wireless client messages to the Ethernet network.

Client

A desktop or mobile computer connected to a network.

DHCP (Dynamic Host Configuration Protocol)

A protocol designed to automatically assign an IP address to every computer on a network.

DNS (Domain Name System) Server Address

Allows Internet host computers to have a domain name and one or more IP addresses. A DNS server keeps a database of host computers and their respective domain names and IP addresses so that when a user enters a domain name into a Web browser, the user is sent to the proper IP address. The DNS server address used by computers on the home network corresponds to the location of the DNS server the ISP has assigned.

DSL (Digital Subscriber Line) Modem

A modem that uses existing phone lines to transmit data at high speeds.

Encryption

Provides security for wireless data transmissions.

ESSID (Extended Service Set Identifier)

A unique identifier for a wireless network.

Ethernet Network

A standard wired network configuration using cables and hubs.

Firewall

Prevents users outside the network from accessing and/or damaging files or computers on the network.

Gateway

A device that manages the data traffic of a network, as well as data traffic to and from the Internet.

IP (Internet Protocol) Address

A series of four numbers separated by periods identifying a unique Internet computer host.

ISP Gateway Address

An IP address for the Internet gateway. This address is only required when using a cable or DSL modem.

ISP (Internet Service Provider)

A business that connects individuals or businesses to the Internet.

LAN (Local Area Network)

A group of computers and devices connected together in a relatively small area (such as a house or an office). A home network is considered a LAN.

MAC (Media Access Control) Address

The hardware address of a device connected to a network.

NAT (Network Address Translation)

Allows all computers on a network to use one IP address, enabling access to the Internet from any computer on the the network without purchasing more IP addresses from an ISP.

PC Card

An Ethernet adapter connected to the PCMCIA slot in a computer, enabling the communication with the Gateway.

PPPoE (Point-to-Point Protocol over Ethernet)

A method of secure data transmission.

Subnet Mask

A set of four numbers configured like an IP address used to create IP address numbers used within a particular network only.

TCP/IP (Transmission Control Protocol/Internet Protocol)

The standard protocol for data transmission over the Internet.

WAN (Wide Area Network)

A network connecting computers located in separate areas, (i.e., different buildings, cities, countries). The Internet is a WAN.

WECA (Wireless Ethernet Compatibility Alliance)

An industry group that certifies cross-vender interoperability and compatibility of IEEE 802.11b wireless networking products and promotes the standard for enterprise, small business, and home environments.

WLAN (Wireless Local Area Network)

A group of computers and other devices connected wirelessly in a small area.

Notices

Regulatory Compliance Notices

Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by implementing one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by A*ction*tec Electronics, Inc., may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;

2. This device must accept any interference received, including interference that may cause unwanted operation.

☞ ***Note***: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

For questions regarding your product or the FCC declaration, contact:

*Action*tec Electronics, Inc.
760 North Mary Ave.
Sunnyvale, CA 94086
United States
Tel: (408) 752-7700
Fax: (408) 541-9005

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Return the product to:
(In the United States)
*Action*tec Electronics, Inc.
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Sunnyvale, CA 94085

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Dispute Resolution: The customer may contact the Director of Technical Support in the event the Customer is not satisfied with *Action*tec Electronics' response to the complaint. In the event that the Customer is still not satisfied with the response of the Director of Technical Support, the Customer is instructed to contact the Director of Marketing. In the event that the Customer is still not satisfied with the response of the Director of Marketing, the Customer is instructed to contact the Chief Financial Officer and/or President.

Governing Law: This Limited Warranty shall be governed by the laws of the State of California, U.S.A., excluding its conflicts of laws and principles, and excluding the United Nations Convention on Contracts for the International Sale of Goods.